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CENTER ROUTING SLIP

FROM	DATE
Chief, TEB/ESD	10 June 1970

TO		INITIALS	DATE	REMARKS
DIRECTOR				
DEP/DIRECTOR				
EXEC/DIRECTOR				
SPECIAL ASST				
ASST TO DIR				
ASST TO DEP/DIR				
CH/PPBS				
DEP CH/PPBS				
EO/PPBS				
CH/IEG				
DEP CH/IEG				
EO/IEG				
CH/PSG				
DEP CH/PSG				
EO/PSG				
CH/DBD/PSG				
CH/TSSG				RED [redacted] BM
DEP CH/TSSG				File # 50083
EO/TSSG				
DIR/IAS/DDI				
CH/DIA/XX4				
CH/DIA/AP-1P				
CH/SPAD				

IP FM 30 (1-68) DESTROY PREVIOUS EDITIONS

25X1

Declass Review by NGA.

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TSSG/ESD-14-70
10 June 1970

MEMORANDUM FOR: See Distribution

SUBJECT : Test Plan for the [redacted] Retrofit Film Transport Kit and [redacted] Motorized Film Drive

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1. The attached Test Plan is forwarded for your information and planning purposes.

2. Your comments concerning the plan will be welcomed.

[redacted]

25X1

Chief
Engineering Support Division, TSSG

Attachment:
Test Plan

Distribution:
25X1 1 - NPIC/TSSG/RED [redacted]
1 - NPIC/TSSG/PPS (through Ch/TSSG)
25X1 1 - NPIC/IEG [redacted]
1 - DDI/IAS
1 - DIAAP-9
1 - Army/SPA
1 - NPIC/TSSG/ESD/EPB
2 - NPIC/TSSG/ESD/TEB

25X1 NPIC/TSSG/ESD/TEB: [redacted] 8 June 70)

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GROUP 1
Excluded from automatic
downgrading and
declassification

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TEST PLAN

25X1 [redacted] RETROFIT FILM TRANSPORT KIT
25X1 AND [redacted] MOTORIZED FILM DRIVE

1. INTRODUCTION

25X1 1.1 The [redacted] Retrofit Film Transport Kit and the [redacted] Film Drive Systems each consist of four AC Motors fitted with sliding brackets for mounting on the [redacted] MiM-4 Light Tables. The motor drive systems are capable of accommodating roll film in any width from 70mm to 9½ inches and any film length up to 1000 feet. Mounted controls on each table allow for manual control of film at speeds in either direction. 25X1

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1.2 This is a general test plan describing briefly the comparative test and evaluation program which the Test and Evaluation Branch (TEB) plans to accomplish. Included in this program are performance, operational, and engineering evaluations of subjective and objective tests. Acceptance testing and reporting are not to be included in this program.

2. ENGINEERING TESTS

2.1 Each film drive system will undergo carefully observed subjective and objective testing. Motors and accessories for each system will be checked for reliability, construction, performance and maintainability.

2.1.1 Inspection for subjective analysis will include checking human and safety factors. Both motor systems will be checked for ease of mounting and dismounting on the [redacted] MiM-4 Light Table. Any hazards that may exist during normal operations will be noted. Film tracking and indexing will be viewed for helping to determine film transport behavior. The final subjective observation will be for the general smoothness of operation and controllability of film speed and direction.

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2.1.2 Objective testing will include data recorded from normal operations procedures. Motor temperatures and current draw (at constant voltage) will be checked in various modes of operation. Film transport, tension, and associated noise levels will be tested at maximum and minimum motor speeds. A test on each system will also be made to find what sizes, lengths and combinations of film widths can be accommodated. A physical and mechnical description will be included in the evaluation.

3. OPERATIONAL SUITABILITY TESTS

3.1 All four operational components within NPIC have indicated a desire to participate in the operational evaluation phase. It is expected that TEB will complete the engineering testing phase by approximately 15 July, 1970. Prior to that time, IEG, IAS, DIA, and SPAD will each be contacted to coordinate a schedule for their phase of the program.

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3.2 Only the [redacted] unit will be routed to the operational components. It is assumed that they have their own comparable [redacted] drive motors if they wish to make direct comparisons. 25X1

3.3 Each of the operational components participating will be requested to submit a written evaluation report to ESD/TEB within one week after completion of their testing period.

4. TEST AND EVALUATION REPORT

4.1 Upon completion of the testing program described herein, an overall test and evaluation report will be produced. This report will contain details of all testing performed on both drive systems and will contain conclusions and recommendations by the operating components as well as by TEB. It is planned to distribute this report to all operating components within NPIC, to EXRAND committee members and to other qualified parties upon request.

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[redacted]
Chief, Test & Evaluation Branch
ESD/TSSG

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